
Product Data Sheet

Product Name: DMS(O)MT aminolink C6

Cat. No.: GC15958

Chemical Properties

Cas. No.

Chemical Name 3-[6-[[bis(4-methoxyphenyl)-(4-methylsulfinylphenyl)methyl]amino]hexoxy-[di(propan-2-yl)amino]phosphanyl]oxypropanenitrile

SMILES CC(C)N(C(C)C)P(OCCCCCNC(C1=CC=C(C=C1)OC)(C2=CC=C(C=C2)OC)C3=CC=C(C=C3)S(=O)C)OCCC#N

Formula C₃₇H₅₂N₃O₅PS M.Wt 681.86

Solubility soluble in acetonitrile, dichloromethane
 Storage Transportation: at room temperature for up to 3 weeks.
 12 months after receipt at -20°C in the dark.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Aminolink phosphoramidite for oligonucleotide synthesis. DMS(O)MT is a special protective group similar to traditional MMT, but designed as an improved alternative to it. DMS(O)MT aminolink is fully compatible with standard coupling, deblock, and purification protocols. However, DMS(O)MT group is much better suited for DMT-on and cartridge purification of amino-oligonucleotides because of higher stability, and better oligonucleotide recovery. Oligonucleotides containing DMS(O)MT are more stable in solution than MMT analogs. In case of cartridge purification, DMS(O)MT protection allows for 2-3 fold increase of oligonucleotide yield, making this reagent a unique solution for high-throughput manufacturing of amino-oligonucleotides.

Caution: Product has not been fully validated for medical applications. For research use only.

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